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Amendments to the Claims

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1-17. Cancelled

18 (Previously presented). A method of eliciting an immune response treating herpetic stromal keratitis in a mammal, the method comprising administering to the mammal an effective amount of a mutated herpesvirus in a pharmaceutically acceptable carrier, the herpesvirus having a mutation in one or more genes encoding a protein essential for viral genome replication to render the herpesvirus replication defective, said mutant herpesvirus having an ability to effect an antibody subclass shift of IgG2a/IgG upon *in vivo* administration to said mammal.

19 (Original). The method of claim 18 wherein the herpesvirus is selected from the group consisting of HSV-1, HSV-2, VZV, EBV, CMV, HHV-6 or HIV-7.

20 (Original). The method of claim 19 wherein the herpesvirus is HSV-1 or HSV-2.

21 (Original). The method of claim 20 wherein the mutation is in the gene or genes encoding the proteins ICP8 or ICP 27.

22-30. Cancelled

31 (Previously presented). A composition in a pharmaceutically accepted carrier comprising:

a mutated herpesvirus characterized by a mutation in at least one gene encoding a protein essential for viral genome replication of said herpesvirus, thereby,

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rendering the virus genome replication defective; and,
the herpesvirus comprising one or more heterologous genes; wherein,
the mutated herpesvirus is capable of infecting a mammalian cell and of eliciting
an immune response to heterologous gene products in a mammal treated with the
herpesvirus.

32-35. Cancelled

36 (Previously presented). A composition comprising a mutated herpesvirus capable
of infecting a mammalian cell;

said herpesvirus comprising a mutation in one or more early genes encoding a
protein essential for viral genome replication to render the herpesvirus replication
defective; and,

said herpesvirus comprising one or more heterologous genes encoding
heterologous gene products; wherein,

the mutated herpesvirus is capable of infecting a mammalian cell and of eliciting
an immune response to the heterologous gene products in a mammal treated with said
herpesvirus.

37-40. Cancelled

41 (Previously presented). A method of inducing an immune response in a mammal
against immunogen, the method comprising administering to said mammal an immune response
inducing effective amount of an immunogenic composition comprising a mutated herpesvirus in
a pharmaceutically accepted carrier, said herpesvirus having a mutation in one or more genes
encoding a protein essential for viral genome replication to render the herpesvirus replication
defective, said herpesvirus further comprising one or more heterologous genes encoding said
immunogen.

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42-64. Cancelled

65 (Previously presented). An immunogenic composition comprising a pharmaceutically acceptable carrier and a mutated herpesvirus capable of infecting a mammalian cell and of eliciting an immune response in a mammal immunized with the composition, wherein the herpesvirus includes two or more mutations, at least one of the mutations being in the genes encoding HSV-1, ICP27; or HSV-1, ICP8; or in a corresponding early gene in a non-HSV-1 herpesvirus, and the mutation renders the herpesvirus incapable of replication, wherein one mutation is a deletion mutation and the other mutation is a nonsense mutation.

66 -67. Cancelled.

68 (Previously presented). An immunogenic composition comprising a pharmaceutically acceptable carrier and a replication defective herpesvirus which expresses a heterologous protein to which an immune response is desired, wherein said herpesvirus is characterized by a mutation in at least one gene encoding HSV-1, ICP27; or HSV-1, ICP8; or in a corresponding early gene in a non-HSV-1 herpesvirus, and the mutation renders the herpesvirus incapable of replication.

69 (Previously presented). The immunogenic composition of claim 68, wherein the herpesvirus is HSV-1, HSV-2, VZV, EBV, HHV-6 or HHV-7.

70. Cancelled.

71 (Previously presented). The immunogenic composition of claim 68 wherein the gene is HSV-1 ICP-27.

72 (Previously presented). The immunogenic composition of claim 68 wherein said gene is HSV-1 or HSV-2 ICP-8.

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73 (Previously presented). The immunogenic composition of claim 68, wherein said herpesvirus is characterized by a mutation in two or more genes encoding IISV-1, ICP27; or IISV-1, ICP8; or in a corresponding early gene in a non-HSV-1 herpesvirus, and the mutation renders the herpesvirus incapable of replication.

74. Cancelled.

75 (Previously presented). The immunogenic composition of claim 73, wherein said genes encode ICP8 and ICP 27.

76 (Previously presented). The immunogenic composition of claim 68, wherein the gene encoding ICP27 comprises a first mutation and the gene encoding ICP8 comprises a second mutation, thereby, the herpesvirus expressing the heterologous protein is rendered incapable of replication.

77 (Previously presented). The immunogenic composition of claim 73, wherein the gene encoding ICP27 comprises a first mutation, thereby, the herpesvirus expressing the heterologous protein is rendered incapable of replication.

78 (Previously presented). The immunogenic composition of claim 73, wherein the gene encoding ICP8 comprises a first mutation, thereby, the herpesvirus expressing the heterologous protein is rendered incapable of replication.

79 (Previously presented). The immunogenic composition of claim 73, wherein the herpesvirus expressing the heterologous protein is HSV-1 or HSV-2.

80 (Previously presented). The immunogenic composition of claim 79, wherein the heterologous protein is an immunogenic protein from a virus, bacteria, fungi or parasite.

81-82. Cancelled.

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83 (Previously presented). The immunogenic composition of claim 80 , wherein the immunogenic protein elicits a B- and/or T-cell immune response.

84 (Previously presented). A method of eliciting an immune response in a mammal, the method comprising administering to the mammal an immunogenic composition comprising a mutated herpesvirus, expressing a heterologous protein and is capable of infecting a mammalian cell and eliciting an immune response, wherein the herpesvirus includes a mutation in a gene encoding HSV-1, ICP27; or HSV-1, ICP8; or in a corresponding early gene in a non-HSV-1 herpesvirus, and the mutated herpesvirus is rendered incapable of replication.

85 (Previously presented). The method of claim 84, wherein the herpesvirus expressing the heterologous protein is selected from the group consisting of HSV-1, HSV-2, VZV, EBV, HHV-6 and HHV-7.

86 (Previously presented). The method of claim 84, wherein the herpesvirus expressing the heterologous protein is HSV-1 or HSV-2.

87 (Previously presented). The method of claim 84, wherein the gene encoding ICP27 comprises a first mutation and the gene encoding ICP8 comprises a second mutation, thereby, the herpesvirus expressing the heterologous protein is rendered incapable of replication.

88 (Previously presented). The immunogenic composition of claim 68 , wherein the heterologous protein is an immunogenic protein from a virus, bacteria, fungi or parasite.

89 (Previously presented). The immunogenic composition of claim 88 , further comprising a mutation in at least two of the genes.

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90 (Previously presented). The immunogenic composition of claim 88, further comprising a mutation in at least two of the genes, wherein one mutation is a deletion mutation and the other mutation is a nonsense mutation.

91 (Previously presented). A method of treating a mammal to elicit an immunogenic response, the method comprising administering to the mammal an effective amount of an immunogenic composition comprising a mutated herpesvirus expressing a heterologous protein in a pharmaceutically acceptable carrier, wherein the herpesvirus includes a mutation in a gene encoding HSV-1, ICP27; or IHSV-1, ICP8; or in a corresponding early gene in a non-HSV-1 herpesvirus, thereby, the mutated herpesvirus is rendered incapable of replication, and the mutant herpesvirus induces an immunogenic effect upon *in vivo* administration to the mammal.

92 (Previously presented). The method according to claim 91, wherein the herpesvirus contains a mutation in at least two of the genes and expresses a heterologous protein.

93 (Previously presented). The method according to claim 91, wherein the herpesvirus contains a mutation in at least two of the genes, wherein one mutation is a deletion mutation and the other mutation is a nonsense mutation.

94 (Previously presented). The method according to claim 91, wherein the herpesvirus contains at least two mutations in the genes.

95 (Previously presented). The method according to claim 94, wherein one mutation is a deletion mutation and the other mutation is a nonsense mutation.

96 (Previously presented). The method of claim 91, wherein the heterologous protein is an immunogenic protein from a virus, bacteria, fungi or parasite.

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97 (Previously presented). The method according to claim 91, wherein the *in vivo* immunogenic effect in a mammal comprises a B- cell and/or T cell response.

98 (Cancelled).

99 (Previously presented). The immunogenic composition of claim 104, wherein the herpesvirus is selected from the group consisting of IISV-1, HSV-2, VZV, EBV, HHV-6 and HHV-7.

100 (Previously presented). The immunogenic composition of claim 104, wherein the herpesvirus is HSV-1 or HSV-2.

101 (Previously presented). The immunogenic composition of claim 99, wherein a gene encoding ICP27 comprises a nonsense mutation and a gene encoding ICP8 comprises a deletion mutation.

102 (Cancelled).

103 (Cancelled).

104 (Previously presented). An immunogenic composition comprising a pharmaceutically acceptable carrier and a mutated herpesvirus capable of infecting a mammalian cell and of eliciting an immune response in a mammal immunized with the composition, wherein the herpesvirus includes two or more mutations, at least one of the mutations being in genes encoding a protein essential for viral genome replication to render the herpesvirus incapable of replication, wherein one mutation is a nonsense mutation and another mutation is a deletion mutation.

105-148. Cancelled.